

Appendix D – Permit To Operate A National Wildlife Refuge

FIRST AMENDED MEMORANDUM OF UNDERSTANDING

BETWEEN

THE U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE

AND

THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE

FOR

**THE OPERATION OF THE FITZNER-EBERHARDT ARID LANDS
ECOLOGY RESERVE AT THE HANFORD SITE**

FOURTH AMENDMENT TO THE WAHLUKE SLOPE PERMIT

This is the First Amended version of the document entitled: “The Memorandum of Understanding between the U.S. Fish and Wildlife Service and the U.S. Department of Energy, Richland Operations Office for the Operation of the Fitzner-Eberhardt Arid Lands Ecology Reserve at the Hanford Site,” original signed June 20, 1997 (hereafter “Original MOU”). This document wholly incorporates and amends the originally signed version. The ALE permit issued concurrently with the Original MOU remains in force, with the understanding that nothing in said permit shall be interpreted to be inconsistent with this Amended MOU. This document is the fourth amendment to the Wahluke Slope Permit, Contract No. AT(45-1)-2249, and nothing in that permit shall be interpreted to be inconsistent with this Amended MOU.

WHEREAS, the U.S. Department of Energy (DOE) Hanford Site, Washington, possesses nationally significant natural, cultural, and scientific resources;

WHEREAS, under the 1971 Permit for Management and Recreational Use of the Wahluke Slope between the DOE and the U.S. Fish and Wildlife Service (FWS) and the Washington State Department of Fish and Wildlife (WDFW), as amended, the 1999 Memorandum of Concurrence for understanding management authorities and responsibilities between the DOE Assistant Secretary for Environmental Management and the DOI Assistant Secretary for Fish, Wildlife and Parks for the North Slope (Wahluke Slope) of the Hanford Site, and the 1997 Permit and

Memorandum of Understanding for Management of the Fitzner-Eberhardt Arid Lands Ecology Reserve Between the DOE and FWS, the FWS currently manages the fish, wildlife, resources on a large portion of the Hanford Site as the Saddle Mountain unit of the National Wildlife Refuge System;

WHEREAS, the President of the United States in Presidential Proclamation 7319 created the Hanford Reach National Monument (Monument) which is superimposed over a large portion of the DOE Hanford Site and most of Saddle Mountain National Wildlife Refuge;

WHEREAS, the mission of the FWS is to conserve, protect, and enhance fish and wildlife and their habitats for the continuing benefit of the American people; the mission of the National Wildlife Refuge System is to administer a national network of lands and waters for the conservation, management, and, where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans; resource management activities by the FWS will preserve the character of the Monument; and the Secretary of the Interior is authorized to provide assistance to, and cooperate with, Federal, State, Tribal governments and public or private agencies and organizations to protect and preserve wildlife and its habitat;

WHEREAS, DOE and the United States Department of the Interior are mutually interested in preserving the nationally significant resources which are present on the Monument;

WHEREAS, DOE has entered into agreements with the FWS, under which FWS has assumed management of these resources on portions of the Monument; and consistent with above authorities described herein, DOE remains responsible for the management and protection of these resources for those lands within the Monument not currently managed by FWS, as well as those lands on the Hanford Site not within the Monument;

WHEREAS, FWS and DOE have determined that the conservation and continued protection of the nationally significant resource values of the Refuge will further the mission of the FWS;

WHEREAS, to ensure that the Refuge is managed as a resource that provides an opportunity for Native Americans to exercise traditional religious and cultural activities consistent with the foregoing objectives;

THEREFORE, DOE-RL and FWS agree as follows:

1.0 DEFINITIONS:

- 1.1 The term “CCP” means Comprehensive Conservation Plan; a FWS document that describes the desired future conditions of the Refuge and provides long-range guidance and management direction for the Refuge project leader/manager to fulfill the purposes

- of the Refuge, contribute to the mission of the National Wildlife Refuge System, and to meet other relevant mandates.
- 1.2 The terms “Department of Energy” and “DOE” mean the United States Department of Energy including the DOE-Headquarters Office, District of Columbia (DOE-HQ), and/or DOE-Richland, Washington, Office (DOE-RL), and Office of River Protection (ORP), or any duly authorized representatives thereof.
 - 1.3 The term “DOE Contractor” refers to the various key contractors at the Hanford Site, identified in Attachment 2 of the Memorandum of Understanding (MOU), which are delegated responsibility by DOE-RL for certain aspects of operations that may be on, or may affect, the Monument. DOE-RL may amend the list of contractors found in Attachment 2 and the amended list will become effective after DOE-RL notifies FWS in a manner consistent with the MOU.
 - 1.4 The term “FACA” means Federal Advisory Committee Act. The Hanford Reach National Monument Planning Advisory Committee was formed under this Act, at the direction of the Secretary of the Interior, to make recommendations to FWS and DOE on the preparations of a Comprehensive Conservation Plan (CCP) for the Monument.
 - 1.5 The term “FWS” means the United States Fish and Wildlife Service or any duly authorized representative thereof.
 - 1.6 The term “FWS Project Leader” means the FWS designated official responsible for those areas of the Hanford Site under FWS management.
 - 1.7 The term “Government” means the United States of America or any agency thereof.
 - 1.8 The term “Hanford Reach National Monument” or “Monument” means the area identified in Presidential Proclamation 7319. Pending completion of a final legal description of the Monument, an interim boundary map is included in Attachment.
 - 1.9 The term “Hanford Site” is that area of federally-owned land that lies within the semiarid Pasco Basin of the Columbia Plateau in southeastern Washington State which is managed by the DOE-RL. The site occupies an area of approximately 586 square miles located north of the city of Richland at the confluence of the Yakima River with the Columbia River. The Hanford Site extends approximately 48 miles north to south and 38 miles east to west.
 - 1.10 The term “Service policy” means direction found in the FWS Manual, Refuge Manual, Executive Orders, or similar documents providing approved management guidance for FWS-administered lands and programs.

1.11 The terms “Saddle Mountain National Wildlife Refuge” or “Refuge” means:

The 32,000 acre area of the Hanford Site administered by FWS in accordance with the 1971 Permit for Management and Recreational Use of the Wahluke Slope between DOE and the Fish and Wildlife Service (FWS) and the Washington State Department of Fish and Wildlife as amended (1971 Permit), and the 1999 Memorandum of Concurrence for understanding management authorities and responsibilities between the DOE Assistant Secretary for Environmental Management and the DOI Assistant Secretary for Fish Wildlife and Parks for the North Slope (Wahluke Slope) of the Hanford Site (1999 MOC) except for those areas within the Wahluke Slope that remain under DOE management (See Appendix 1 Map); the approximately 57,000 acres of the former Wahluke Wildlife and Recreational Area formerly managed by the Washington Department of Fish and Wildlife in accordance with the 1971 Permit and 1999 MOC except for those areas within the Wahluke Slope that remain under DOE management (See Appendix 1 Map); and the 77,000-acre Fitzner-Eberhardt Arid Lands Ecology Reserve managed in accordance with the 1997 Permit and Memorandum of Understanding for Management of the Fitzner-Eberhardt Arid Lands Ecology Reserve Between DOE and FWS, except for those areas that remain under DOE management (See Appendix 1 Map);

1.12 The term “Designated Federal Official” means an agency employee designated by the sponsoring agency to manage the affairs of a Federal Advisory Committee. As provided by the Federal Advisory Committee Act, the Designated Federal Official is responsible for: calling, attending, and adjourning meetings; approving agendas, maintaining required records on costs and membership; ensuring efficient operations; maintaining records for availability to the public; and providing copies of committee reports to the Committee Management Officer for forwarding to the Library of Congress.

2.0 AUTHORITIES:

2.1 DOE-RL enters into this agreement pursuant to the authority of the Economy Act, as amended (31 U.S.C. §1535); the Atomic Energy Act of 1954, as amended (42 U.S.C. §§ 2011-2259); the Energy Reorganization Act of 1974 (P.L. 93-438); the Department of Energy Organization Act (P.L. 95-91); Executive Order 12512; Presidential Proclamation 7319 and other applicable authorities.

2.2 FWS enters into this agreement pursuant to the authority of Sections 1 and 4 of the Fish and Wildlife Coordination Act, 16 U.S.C. Sections 661 and 664; the National Wildlife Refuge System Administration Act of 1966, 16 U.S.C. §§ 668dd-668ee as amended; the National Wildlife Refuge Improvement Act of 1997 (P.L. 105-57); Antiquities Act 16 U.S.C. 431-433; Presidential Proclamation 7319; and other applicable authorities.

3.0 OBJECTIVES:

- 3.1 The primary objective of DOE in entering into this agreement is to ensure the preservation of natural and cultural resources of the Refuge while continuing current use of portions of the Refuge as a Research Natural Area and as a safety buffer for DOE-RL's ongoing missions on the Hanford Site.

- 3.2 The primary objective of the FWS in entering into this agreement is to ensure that the parts of the Monument managed by FWS are managed in accordance with Presidential Proclamation 7319 of June 9, 2000, under the:

1971 Permit for Management and Recreational Use of the Wahluke Slope between DOE and the Fish and Wildlife Service (FWS) and the Washington State Department of Fish and Wildlife as amended;

1999 Memorandum of Concurrence for understanding management authorities and responsibilities between the DOE Assistant Secretary for Environmental Management and the Department of Interior Assistant Secretary for Fish Wildlife and Parks for the North Slope (Wahluke Slope) of the Hanford Site;

1997 Permit and Memorandum of Understanding for Management of the Fitzner-Eberhardt Arid Lands Ecology Reserve Between DOE and FWS;

- 3.3 Other objectives of importance to both DOE and FWS are:

- 3.3.a To ensure that the integrity of the Refuge as an intact ecological unit is maintained;
- 3.3.b To ensure that the Refuge is managed as a resource that provides an opportunity for Native Americans to exercise traditional religious and cultural activities consistent with the foregoing objectives;
- 3.3.c To ensure that access to the Refuge is available for the educational, scientific, and recreational benefit of the public to the extent this access and use is consistent with the foregoing objectives and compatible with Refuge purposes;
- 3.3.d To ensure that worker safety and public protection are maintained;
- 3.3.e To ensure protection and preservation and continued monitoring of nationally significant cultural resources including archeological and historic resources and traditional cultural places.

4.0 FWS RESPONSIBILITIES:

- 4.1 MANAGEMENT PLANNING - FWS will be the lead agency developing a CCP and accompanying National Environmental Policy Act (NEPA) documentation for the Monument. This plan will be developed with the involvement of the public, local governments, other affected agencies, and affected Native American Tribes. Subject to appropriate funding, FWS will in good faith attempt to have a draft plan developed within 36 months of the signing of this MOU. The draft and final plan will be subject to timely review and approval by DOE-RL.
 - 4.1.a The FWS will be the lead agency to form and work with the Hanford Reach National Monument Federal Planning Advisory Committee to develop the plan.
 - 4.1.b FWS will consider using existing resource management plans (Hanford Site Biological Resources Management Plan, Noxious Weed Management Plan, Annual Sampling Plans, and the Hanford Cultural Resources Management Plan) and other resources and expertise to maximize efficiencies and minimize duplication of effort in developing the CCP.
- 4.2 ACCESS - FWS shall have responsibility for controlling access to the Refuge except for those entering under the authority of DOE-RL.
 - 4.2.a An access agreement will be developed between FWS and DOE-RL to coordinate timely access.
 - 4.2.b FWS shall provide those under FWS authority entering the restricted areas in the Refuge with information furnished by DOE concerning potential risks and appropriate procedures as required under the emergency preparedness planning documents and require that they have necessary equipment to allow for immediate notification in case of emergency situations.
 - 4.2.c FWS shall identify appropriate points of contact (POC) and will consult with appropriate DOE-RL POCs, as identified in Attachment 4 of this MOU, regarding access control, and protective measures related to emergency preparedness.
 - 4.2.d FWS will promptly notify the appropriate DOE-RL (POC) of any FWS activity, or activity by others under the jurisdiction of FWS, that may have the potential to impact any DOE-RL activity on the Hanford Site, or that may impact the ability of DOE-RL to adequately assess potential impacts from operations at Hanford on the health of the public or the environment. In addition, FWS will provide to DOE-RL a summary of ongoing activities, activities identified in

active Special Use Permit applications, and planned activities on an agreed upon frequency, but no less than semi-annually.

- 4.2.e An FWS official will be the “Federal Agency Official” for implementing the Native American Graves Protection and Repatriation Act (NAGPRA) and the National Historic Preservation Act (NHPA) on the Refuge. FWS will promptly notify the appropriate DOE-RL POC of any “determination” under the NHPA, and any “inadvertent discovery” or planned “intentional excavation” under NAGPRA.
- 4.3 FWS shall be responsible for notifying DOE-RL if FWS discovers any hazardous (or dangerous), toxic, or radioactive wastes or other substances of concern, or of the release or threatened release of such substances on the Refuge as soon as reasonably possible following discovery.
- 4.4 FWS shall notify DOE-RL of any accident, injuries, fires, thefts, or similar events as soon as reasonably possible following discovery. Appropriate DOE-RL POCs are identified in Attachment 4.
- 4.5 FWS and its authorized representatives are responsible for assuring that the design, siting, construction, operation, maintenance, and repair of any new or existing facilities needed in the operation of the Refuge meet all cultural, environmental, health, and safety criteria under applicable laws and regulations, and are in accordance with FWS policy and the Monument Proclamation. All proposed new construction or modification of existing structures on Hanford Site lands must be approved by DOE-RL. DOE-RL will consult with FWS concerning structures required by DOE-RL to be placed on the Refuge to fulfill DOE missions. List of facilities on lands designated in Section 1.11 identified in Attachment 5.
- 4.6 FWS and its authorized representatives are responsible for compliance with all applicable laws and regulations for activities at the Hanford Site performed by FWS or its authorized representatives.
- 4.7 Unless otherwise agreed to by DOE-RL, the FWS and its authorized representatives are responsible, upon termination or expiration of this MOU, for funding the ultimate disposition of any FWS facilities constructed during the effective term of this agreement, including performing and documenting the environmental analysis of such disposition as required by NEPA and any other applicable statutory requirements. FWS proposed methods of disposition of constructed facilities on the Refuge are subject to DOE-RL approval.
- 4.8 FWS may, consistent with Service policy and within the limits of available personnel, provide various services to DOE-RL, upon request, on a cost reimbursable basis.

- 4.9 FWS will seek to enter into consultation agreements and access agreements as appropriate with Native American Tribes and peoples concerning traditional, cultural, and religious activities on the Refuge. Such agreements shall be subject to DOE-RL approval.
- 4.10 It is understood that FWS and DOE will cooperate to evaluate and reduce threats to the public and the environment. The FWS expressly recognizes that it shall be responsible for the costs associated with any removal or remedial action required by applicable laws or regulations which arise solely as a result of FWS management actions on the Refuge, or as a result of actions of others present on the Hanford Site who are under authority of the FWS, except for those parties authorized by DOE.
- 4.11 The Refuge Project Leader will serve as the Designated Federal Official to the Hanford Reach National Monument Planning Federal Advisory Committee.
- 4.12 The FWS is responsible for implementation of Public Law 100-605 as amended by Section 404 of P.L. 104-333 (Hanford Reach Protection).
- 4.13 FWS will promptly share environmental and cultural resource information with DOE-RL.
- 4.14 FWS will consult with DOE-RL in regards to any new land use proposals which may affect the Hanford Site or land designated by the Comprehensive Land Use Plan, Proclamation, or Memorandum as suitable for inclusion into the Monument and/or Refuge.
- 5.0 DOE-RL RESPONSIBILITIES:
- 5.1 DOE-RL is responsible for Payment in Lieu of Taxes for the Hanford Site to the extent such payments are required under the Atomic Energy Act.
- 5.2 DOE-RL is responsible for the administration of all third party rights and uses, including easement, licenses, and permits granted by DOE-RL to third parties for activities that are ongoing on the Hanford Site as identified in Attachment 3 to this MOU. This responsibility includes administrative controls, access, and infrastructure maintenance to support the third party activities. DOE-RL will consult with the FWS Project Leader regarding any new, or changes to, grants of easements, licenses, permits, or any other activities involving third parties on the Monument.
- 5.3 DOE-RL shall revise Attachments 2, 3, 4, and 5 of this MOU on an annual basis, or more often as required. Copies of the revisions shall be made available to FWS.

- 5.4 DOE-RL will consult with FWS to determine the need for additional analysis and monitoring of contaminants on the Refuge. FWS shall be responsible, fiscally and physically, for meeting objectives solely the responsibility of FWS. FWS will consult with and utilize existing capabilities and monitoring programs to maximize efficiency in performing any monitoring programs and avoid duplication of activities and/or capabilities to the extent possible.
- 5.5 DOE-RL, through its contractor(s), to the extent that DOE-RL and FWS agree to be appropriate and feasible, is responsible for providing FWS the use of, and making available, the existing and future developed Hanford Site support services, including the infrastructure, the electric power supply, telecommunications support, records and data from past, present, and future Refuge programs, and other needed site services for these lands.
- 5.6 DOE-RL shall notify the FWS Project Leader of any significant accident, injuries, fires, material releases, thefts, or other unusual occurrences or which might affect Refuge lands as soon as reasonably possible following discovery.
- 5.7 DOE-RL will continue to support tribal participation in the Hanford Site decision making process commensurate with their responsibilities identified in this MOU.
- 5.8 DOE-RL shall be responsible for providing to the FWS Project Leader access to available information on past or present hazardous (or dangerous) toxic, or radioactive wastes or other substances of concern which could potentially affect the Refuge.
- 5.9 DOE shall have responsibility for controlling access to the Refuge for those entering under the authority of DOE-RL, and shall keep the FWS Project leader for the Refuge informed regarding access and use needs for DOE-RL or DOE-RL approved activities.
- 5.10 DOE will work with FWS to identify, plan and seek funding for land surveys for the Monument and boundary marking as appropriate.
- 5.11 DOE will cooperate in the preparation of a CCP and accompanying NEPA documentation for the Monument.
- 5.12 DOE will, at no cost, provide the opportunity for FWS personnel and FWS-authorized representatives working on the Hanford Site to receive appropriate HAZWOPER, Radiation Worker I, and any other safety and first aid training necessary to access the site.
- 5.13 DOE-RL will designate a representative to work with Hanford Reach National Monument Federal Advisory Committee.

- 5.14 DOE will make the Hanford Cultural Resources Laboratory at the Pacific Northwest National Laboratory available to FWS as a repository and central clearinghouse for cultural resources.
- 5.15 DOE-RL will consult with FWS regarding any land use proposals which may affect the Refuge.
- 5.16 DOE will provide, as necessary, badging and dosimetry to FWS personnel.
- 5.17 DOE must approve all proposed land use changes or proposed construction sites.
- 5.18 DOE will consult with FWS on long-term management of the cultural, natural, and biological resources as part of integrated long-term stewardship planning for the Hanford Site.
- 5.19 DOE will share environmental and cultural resource information with FWS and designated contractor(s).
- 6.0 PROGRAM FUNDING:
- 6.1 DOE-RL and FWS will fund, on a basis proportionate to their respective use, continuing maintenance of Refuge facilities including roads.
- 6.2 FWS and/or its authorized representatives will fund any cultural or environmental mitigation required to allow construction and/or operations by the FWS and/or its authorized representatives on the Hanford Site.
- 6.3 DOE-RL and FWS will work together to determine funding needs for facility operations, improvements and facilities to enhance Monument operations and accommodate increased tribal and public access consistent with the CCP.
- 6.4 Any requirements for payment or obligations of funds by FWS or DOE-RL established by the terms of this MOU shall be subject to the availability of appropriated funds and other legal limitations.
- 6.5 Except as otherwise negotiated in separate funding agreements, each party shall be responsible for funding its responsibilities under this MOU.
- 6.6 DOE will provide FWS with existing and updated GIS data as available for lands and resources associated with management of the Refuge. Costs associated to provide information and underlying data available in FWS-usable format, if different than existing format, will be provided by FWS. In addition, FWS and DOE must evaluate the need to duplicate existing site capabilities and expertise and ensure controls are in place

to preclude the generation of conflicting versions of GIS layers, environmental data, and assessment results and/or the release of outdated information as time proceeds.

7.0 INTERAGENCY INTEGRATED MANAGEMENT ARRANGEMENTS:

- 7.1 This MOU allows and encourages direct communication between DOE and FWS officials involved in managing the Refuge. Sharing of information regarding natural and cultural resources will be a priority. The parties will make available to each other existing GIS, historical surveys/studies, biological surveys, cultural surveys, contaminant related information, and other information necessary to appropriately manage and protect the Refuge resources. Each party will take actions necessary to assure confidentiality of all natural and cultural resource data where appropriate, as determined by each agency.

8.0 PUBLIC INFORMATION COORDINATION:

- 8.1 The agencies agree that prior to the release of any significant information regarding the Refuge or management thereof, such as a statement to the press, they shall consult together regarding the content of such a release. Each agency will identify a specific point of contact to coordinate the release of information to the public pertaining to the Refuge.

9.0 AMENDMENT AND TERMINATION:

- 9.1 This MOU may be amended by written agreement between the Manager, DOE-RL and the FWS Pacific Northwest Regional Director.
- 9.2 It is the intent of the Parties that this MOU shall remain in effect for twenty-five years unless terminated earlier as provided herein. This Permit shall be renewed automatically upon expiration of each effective period unless either party indicates a contrary intent.
- 9.3 With respect to the ALE, this MOU and the ALE permit shall be terminable upon the same conditions under which the June 1997 ALE permit may be terminated. With respect to the Wahluke Slope, this MOU and the Wahluke Slope permit shall be terminable upon written agreement of the FWS Regional Director and the DOE-RL manager.
- 9.4 The MOU may be terminated for cause if either party fails to abide by the terms and conditions of the MOU.

10.0 EFFECTIVE DATE AND EXTENSIONS:

- 10.1 This MOU shall become effective upon the latter date of signature of the parties. It shall remain in effect until terminated pursuant to Section 9.0 of this MOU.

11.0 OTHER PROVISIONS:

- 11.1 Nothing in this MOU will be deemed to establish any right or provide a basis for any action, either legal or equitable, by any person or class of persons challenging a government action or a failure to act.
- 11.2 All areas managed by the FWS within the Hanford Site will be managed as an overlay Refuge unit of the National Wildlife Refuge System unless otherwise noted by amending this agreement.
- 11.3 Additional land within the Hanford Site currently managed by DOE may also become part of the Refuge by amending this agreement.
- 11.4 Lands may be transferred back to DOE management in the event that FWS-managed lands become contaminated through DOE operations from groundwater movement, air deposition, or by other means. Particular portions of Refuge lands will be transferred back to DOE management upon request of DOE and 180 days notice.
- 11.5 Law enforcement, emergency planning, fire protection and emergency medical services shall be managed in accordance with existing and future agreements, permits, MOUs, and memoranda.
- 11.6 Nothing in this agreement shall be interpreted to impose upon DOE standards for environmental cleanup, or any other form of liability, which exceed or which are different from those which would be imposed in the absence of this agreement.
- 11.7 If required by DOE for safety or security buffer zone purposes, FWS shall impose use and occupancy restrictions as specified by DOE upon particular parcels of land.

U.S. Department of Energy
Manager, Richland Operations Office, WA

Signature: _____



Name: _____

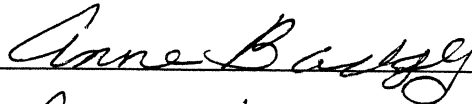
KEITH KEN

Date: _____

June 14, 2001

U.S. Fish and Wildlife
Pacific Regional Director

Signature: _____



Name: _____

ANNIE BADGLEY

Date: _____

June 14, 2001

Appendix D – Refuge Permit, Attachment 1, Maps

Omitted, see Map Section for Monument maps.

Appendix D – Refuge Permit, Attachment 2, Hanford Site Operations and Contractors

DOE Richland Operations Office Contractors and Subcontractors

- Battelle Memorial Institute (Operates Pacific Northwest National Laboratory)
- Bechtel Hanford, Inc.
- CH2M Hill Hanford, Inc.
- Eberline Services Hanford, Inc.
- Benton County Sheriff
- Fluor Daniel Hanford, Inc.
- Babcock and Wilcox Hanford Company
- Numatec Hanford Corporation
- Waste Management Federal Services of Hanford, Inc.
- DynCorp Tri-Cities Services, Inc.
- Protection Technology Hanford
- Hanford Environmental Health Foundation
- Interstate Nuclear Services (operates off-site laundry for contaminated clothing)
- Johnson Controls, Inc. (operates steam producing boilers)

DOE Office of River Protection Contractors

- British Nuclear Fuels Limited, Inc.
- Lockheed Martin Hanford Corporation

Other Activities Onsite

- Bonneville Power Administration (Operates electrical substations and switching stations.)
- US Ecology, Inc. (Operates commercial radioactive waste disposal site.)
- Energy Northwest (Operates commercial nuclear power plant.)
- National Science Foundation (Operates Laser Interferometer Gravitational-Wave Observatory.)
- Kaiser Aluminum and Chemical Corporation (Operates commercial metal extrusion press.)
- Washington State University (Operates three laboratories.)

Appendix D – Refuge Permit, Attachment 3, Ongoing ALE Research, Studies, Projects, Activities and Users

Agency/Organization	Project	Contact
WSU Pullman	Insect Diversity	Richard Zack
WSU Tri-Cities	Insect Ecology	Lee Rogers
WSU Tri-Cities	Misc. M.S. Thesis Projects	Gene Schreckhise
WSU Tri-Cities	Rorripa Study	Sally Simmons
WSU-Agriculture	Biological Control Insects	Wyatt Cone, Keith Pike
WSU/PNNL	Sagebrush Physiology and Genetics	Jannelle Downs
DOE PASS Program	Joint Research	Karen Wieda
DOE/PNNL	Soil Moisture	Karin Hover
DOE/PNNL	LIGO Vibration	Alan Rohay
DOE/PNNL	NN20 Broad	Alan Rohay
DOE/PNNL	Ground Water Surveillance	Doug Hildebrand
DOE/PNNL	Ecosystem Monitoring Sampling	Larry Cadwell
DOE-HQ/PNNL	Global Climate	Jerry Stokes
DOE-HQ/PNNL	Global Climate	Harvey Bolton
TNC	Biotic Inventory	Curt Soper
USEPA	Pesticide Drift	Mike Marsh
WDFW	Avian Diversity/Habitat	Mathew VanderHaegen
WDFW	Sagebrush Restoration	Lisa Fitzner
WDFW	Understory Effects of Habitat	Lisa Fitzner
WDFW	CERCLA Restoration Site Monitor	J. McConnaughey
University of Washington	Earth Crust Small Scale Movement	Alan Rohay
National Seismic Network	Low Vibration	Alan Rohay

Agency/Organization	Project	Contact
PNNL	Utilities Operations	J. Massey
PNNL	ALE Facilities	C. Nelson
PNNL	Cultural Resource Reviews	Darby Stapp
PNNL	Operations Manager	B. Robertson
PNNL	Soil ET Lysimeters	Glendon Gee
Waste Management Federal Services of Hanford, Inc.	Ground Water Well Maintenance	M. Gardner
Waste Management Federal Services of Hanford, Inc.	Ground Water Well Sampling	D. Edwards
Waste Management Federal Services of Hanford, Inc.	Integrated Pest Management	R. Giddings
Washington Public Power Supply System	Emergency Alert Siren	Bill Flynn
DOE	Radio Site on Rattlesnake Mountain	Bill Spocich
Columbia Communications	Radio Site on Rattlesnake Mountain	Mike Gerdes
Motorola Network Services	Radio Site on Rattlesnake Mountain	Ron Kohler
Western Paging I	Radio Site on Rattlesnake Mountain	Bob Young
Tri-Cities Amateur Radio Club	Radio Site on Rattlesnake Mountain	Ernie Place
WA Department of Transportation	Gravel Stockpile along Highway 240	Elba Richards
Big Bend Alberta Company	Mineral Rights	Currently Undetermined

Agency/Organization	Project	Contact
Alliance of Advancement of Science through Astronomy Lawrence Berkley Lab.	Electronic Access to Rattlesnake Observatory	Roy Gephardt
University of Washington University of California	Basic Research	Roy Gephardt
BHI/CERCLA	Vegetation Restoration	Ken Gano
U.S. Biological Service	Plant Growth Patterns/Stress	Steve Link
AWU Northwest	Ecology Studies	Kathy Lundgren
PNNL	Public Affairs Tours	K. Blasdel
PNNL	General Maintenance	R. Gooding, C. Rosscup
PNNL	Ecological Assessments Vegetation Restoration	C. Brandt, M. Schschewsky
PNNL	Seismic Monitoring	Alan Rohay
PNNL	Climatological and Meteorological Research	D. Knight

Appendix D – Refuge Permit, Attachment 4, Point of Contact List

U.S. Fish and Wildlife Service Refuge Project Leader. Greg Hughes

Elements Associated with Managing the Monument Lands, DOE Point of Contact

Biological and Natural Resources; Radiation
Protection of the Public and Environment;
Existing Uses Coordination. Dana Ward
Industrial Mineral Resources Management. Jamie Zeisloft
Noxious Weed Control. John Hall
Signs, Markers, Boundary Survey; Utilities and Infrastructure. Steve Burnum
Emergency Planning and Preparedness. Judy Tokarz-Hames
Environmental Regulatory Compliance (hazardous waste, air, water). Cliff Clark
National Environmental Policy Act. Paul Dunigan
Cultural Resources. Dee Lloyd
Hanford Comprehensive Land Use Plan Environmental
Impact Statement; Visual and Aesthetics Management. Tom Ferns
Environmental Restoration; Contaminant Issues;
Natural Resource Trustee Council. Jamie Zeisloft
Emergency Services (Fire Control). Craig Christenson
Occupational Radiation Protection. Brenda Pangborn
Federal Advisory Committee; Public Information Releases. Marla Marvin
Native American Affairs. Kevin Clarke
Tourism/Visitation/Public Access. Mary Goldie
Payment in Lieu of Taxes. Ed Hiskes
Realty and Use Permits. Roger Jacob, Boyd Hathaway
Site Planning; Long-Term Stewardship. Jim Daily
Budget. Jim Peterson
Nuclear Safety Analysis. Mark Jackson
Aviation Safety. Gerry Bell

Appendix D – Refuge Permit, Attachment 5, List of Facilities

Space Science Laboratory
Storage Building
Pumphouse
Atmospheric Facility
Atmospheric Facility
Lysimeter Preparation Building
ALE Field Storage
ALE Laboratory I
ALE Headquarters
ALE Laboratory II
Pumphouse
Rattlesnake Mountain Lower Pumphouse
Fallout Laboratory
Storage Building
Fire Protection Pumphouse
Upper Pumphouse
NIKE Missile Silo
Rattlesnake Springs Research Facility
DOE Repeater Facility
Navy Mars Radio Building